



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H141105

Mode: Highway

Status: Submitted

SR-1106 (Duke Street)

From/Cross Street: Duke Street/US 321-A

Specific Improvement Type: 10 - Improve Intersection

To:

Project Category: Regional Impact

Length: 0.5

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$233,000

Description:

Improve intersection at Duke Street (SR 1106) and US 321-A in Granite Falls. The intersection should be moved south and realigned with US 321-A.

Division(s): Division 11

County(s): CALDWELL

MPOS(s)/RPO(s): Greater Hickory MPO

Project Location



Statewide Mobility Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Totals: Weight: 0% Weighted Score: 0	N/A	N/A

Regional Impact Total Score: 71.26

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 32.69	Percent: 15% Points: 100	Percent: 15% Points: 100
Safety (10%) 66.65		
[Travel Time] Benefit/Cost (25%) 100.00		
Accessibility / Connectivity (10%) 14.22		
Totals: Weight: 70% Weighted Score: 41.26		

Division Needs Total Score: 58.2

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 32.69	Percent: 25% Points: 0	Percent: 25% Points: 100
Safety (10%) 66.65		
[Travel Time] Benefit/Cost (20%) 100.00		
Totals: Weight: 50% Weighted Score: 33.2		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	29
Length (miles):	0.5
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	1
Roadway has Curb & Gutter?	Yes
Volume (AADT):	14221.47
Capacity:	31600
Volume/Capacity Ratio:	0.45
% Autos:	96%
% Trucks:	4%
Truck Volume:	601.86
Crash Density:	0
Crash Severity:	0
Critical Crash Rate:	0
Crash Frequency:	33.3
Severity Index:	100
County Tier Designation:	1
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	20
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	69
Actual Congested Speed:	0
Travel Time Index:	

Project Benefits

Project Cross-Section:	
Speed Limit:	35
Length (miles):	0.5
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Minor Arterial
TerrainType:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	2
Travel Time Savings for 30 Years (Total):	3883000
Travel Time Savings for 30 Years (Autos):	3718669.58
Travel Time Savings for 30 Years (Trucks):	164330.42
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	Yes
CTP/LRTP Name:	LRTP
CTP/LRTP Completion Year:	2014
Submitted by:	Greater Hickory MPO

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT On!ine tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 11	100%	100	0
	0%	0	0
	0%	0	0
TOTAL Division Points		100	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Greater Hickory MPO	100%	100	100
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		100	100

Project Cost and Source

Construction Cost:	\$188,000	Cost Estimation Tool
Right-of-Way Cost:	\$45,000	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$233,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$233,000	